AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A tetrafluoroethylene polymer aqueous dispersion obtained by carrying out a tetrafluoroethylene polymerization in an aqueous medium in the presence of a fluorovinyl group-containing emulsifier,

wherein said tetrafluoroethylene polymer aqueous dispersion contains a particle comprising a tetrafluoroethylene polymer dispersed in said aqueous medium,

said fluorovinyl group-containing emulsifier comprises a fluorovinyl group-containing compound (I) represented by the general formula (I):

$$CF_2=CF-(CF_2)_a-Y$$
 (I)

wherein a represents an integer of 1 to 10 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (II) represented by the general formula (II):

$$CF_2=CF-(CF_2C(CF_3)F)_b-Y$$
 (II)

wherein b represents an integer of 1 to 5 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (III) represented by the general formula (III):

$$CF_2$$
= CFO - $(CFX)_c$ - Y (III)

wherein X represents F or -CF₃, c represents an integer of 1 to 10 and Y represents –SO₃M or – COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (IV) represented by the general formula (IV):

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 $CF_2=CFO-(CF_2CFXO)_d-(CF_2)_e-Y$ (IV)

wherein X represents F or -CF₃, d represents an integer of 1 to 10, e represents an integer of 1 to 3 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (V) represented by the general formula (V):

CH₂=CFCF₂O-(CF(CF₃)CF₂O)_f-CF(CF₃)-Y (V)

wherein f represents an integer of 0 to 10 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal, and/or

a fluorovinyl group-containing compound (VI) represented by the general formula (VI):

 $CF_2=CFCF_2O-(CF(CF_3)CF_2O)_g-CF(CF_3)-Y$ (VI)

wherein g represents an integer of 1 to 10 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal,

said tetrafluoroethylene polymer aqueous dispersion has a fluorine-containing surfactant content of not higher than 1000 50 ppm by mass,

wherein the tetrafluoroethylene polymer has a tetrafluoroethylene unit content exceeding 40 mole percent.

- 2. (canceled).
- 3. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the tetrafluoroethylene polymer is a perfluoro-based polymer.
- 4. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the tetrafluoroethylene polymerization is carried out in the absence of any non-byproduct fluorine-containing surfactant.
- 5. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the fluorovinyl group-containing emulsifier comprises the

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fluorovinyl group-containing compound (I), the fluorovinyl group-containing compound (III), the fluorovinyl group-containing compound (IV) and/or the fluorovinyl group-containing compound (V).

6. (original): The tetrafluoroethylene polymer aqueous dispersion according to Claim 5, wherein the fluorovinyl group-containing emulsifier comprises a fluorovinyl group-containing compound (i) represented by the general formula (i):

$$CF_2 = CF_1(O)_h - (CF_2CF(CF_3)O)_i - (CF_2)_i - Y \qquad (i)$$

wherein h represents an integer of 0 or 1, i represents an integer of 0 to 2, j represents an integer of 1 to 3 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal, and/or a fluorovinyl group-containing compound (ii) represented by the general formula (ii):

CH₂=CFCF₂O-(CF(CF₃)CF₂O)_k-CF(CF₃)-Y (ii)

wherein k represents an integer of 0 to 3 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal.

- 7. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, which has a solid matter concentration of 5 to 70% by mass.
- 8. (previously presented): The tetrafluoroethylene polymer aqueous dispersion according to Claim 1, wherein the particle comprising the tetrafluoroethylene polymer has an average primary particle diameter of 50 to 500 nm.
- 9. (withdrawn): A tetrafluoroethylene polymer powder which is obtained by coagulating the tetrafluoroethylene polymer aqueous dispersion according to Claim 1.
- 10. (withdrawn): A tetrafluoroethylene polymer molding which is obtained by molding/processing using the tetrafluoroethylene polymer aqueous dispersion according to Claim 1.

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11. (withdrawn-currently amended): A method of producing a tetrafluoroethylene polymer aqueous dispersion-by which comprises carrying out a tetrafluoroethylene polymerization in an aqueous medium in the presence of a fluorovinyl group-containing emulsifier,

wherein said tetrafluoroethylene polymer aqueous dispersion contains a particle comprising a tetrafluoroethylene polymer dispersed in said aqueous medium and has a fluorine-containing surfactant content of not higher than—1000 50 ppm by mass,

said fluorovinyl group-containing emulsifier is added in an amount of 0.00001 to 2% by mass relative to said aqueous medium, and

said fluorovinyl group-containing emulsifier comprises a fluorovinyl group-containing compound (I) represented by the general formula (I):

$$CF_2 = CF - (CF_2)_a - Y$$
 (I)

wherein a represents an integer of 1 to 10 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (II) represented by the general formula (II):

$$CF_2=CF-(CF_2C(CF_3)F)_b-Y$$
 (II)

wherein b represents an integer of 1 to 5 and Y represents –SO₃M or –COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (III) represented by the general formula (III):

$$CF_2$$
= CFO - $(CFX)_c$ - Y (III)

wherein X represents F or -CF₃, c represents an integer of 1 to 10 and Y represents –SO₃M or – COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (IV) represented by the general formula (IV):

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 $CF_2 = CFO - (CF_2CFXO)_d - (CF_2)_e - Y$ (IV)

wherein X represents F or -CF₃, d represents an integer of 1 to 10, e represents an integer of 1 to

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3 and Y represents -SO₃M or -COOM in which M represents H, NH₄ or an alkali metal,

a fluorovinyl group-containing compound (V) represented by the general formula (V):

CH₂=CFCF₂O-(CF(CF₃)CF₂O)_f-CF(CF₃)-Y (V)

wherein f represents an integer of 0 to 10 and Y represents -SO₃M or -COOM in which M

represents H, NH₄ or an alkali metal, and/or

a fluorovinyl group-containing compound (VI) represented by the general formula (VI):

 $CF_2 = CFCF_2O - (CF(CF_3)CF_2O)_g - CF(CF_3) - Y$ (VI)

wherein g represents an integer of 1 to 10 and Y represents –SO₃M or –COOM in which M

represents H, NH₄ or an alkali metal,

wherein the tetrafluoroethylene polymer has a tetrafluoroethylene unit content exceeding 40

mole percent.

12. (withdrawn): The method of producing a tetrafluoroethylene polymer aqueous

dispersion according to Claim 11, wherein the addition of the fluorovinyl group-containing

emulsifier is carried out in the manner of a supplementary addition with the progress of a

tetrafluoroethylene polymerization reaction.

13. (canceled).

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